

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200568

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File 371:French Patents 1961-2002/BOPI 200209

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File 347:JAPIO Nov 1976-2005/Jun(Updated 051004)

(c) 2005 JPO & JAPIO

Set	Items	Description
S1	71622	HAIR
S2	896183	CLIP? ? OR HOLDER? ? OR FASTENER? ? OR CLASP? ? OR CLAMP? ? OR GRIP OR GRIPS
S3	679821	SPRING
S4	627687	HINGE? ? OR PIVOT? OR SWIVEL?
S5	2386639	SHIELD? ? OR PROTECTIVE OR PLATE OR PLATES OR PAD OR PADS - OR SKIRT OR SKIRTS
S6	3998834	MATERIAL OR COVERING OR COVER OR COVERS
S7	145044	PERMANENT? ?
S8	1398218	TREATMENT? ? OR TREATING
S9	102692	COLOURING OR COLORING
S10	51221	DYEING OR TINTING OR FROSTING OR STREAKING OR TOUCHUP? ? OR TOUCHING()UP
S11	2114657	PROCESSING OR BLEACHING OR HIGHLIGHTING
S12	681838	DYE OR HAIRDYE OR COLOR OR COLOUR OR TINT OR HIGHLIGHT? ?
S13	153071	IC=A45D? OR IC=A61K-007?
S14	676	S1()S2
S15	254	S14 AND S3:S4
S16	246	S14 AND S5:S6
S17	115	S15 AND S16
S18	10	S7:S12 AND S17
S19	7	S13 AND S18
S20	3	S18 NOT S19
S21	12	(S16 AND S7:S12 AND S13) NOT S18
S22	102	(S17 AND S13) NOT (S18 OR S21)
S23	87	S14/TI AND S22
S24	91	S1(2N)S2(S)S3:S4(S)S5:S6
S25	80	S13 AND S24
S26	8	S7:S12 AND S25
S27	2	S26 NOT (S18 OR S21)
S28	34702	IC=A45D?
S29	80	S28 AND S24
S30	5744	IC=(A45D-006? OR A45D-002? OR A45D-007? OR A45D-019?)
S31	16	S29 AND S30
S32	11	S31 NOT (S18 OR S21 OR S26)
S33	5	S7:S12(S)S24
S34	0	S33 NOT (S18 OR S21 OR S26 OR S31)
S35	10	S7:S12 AND S24
S36	1	S35 NOT (S18 OR S21 OR S26 OR S31)

19/34/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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016804162 **Image available**

WPI Acc No: 2005-128442/200514

Hair clip for permanent

Patent Assignee: KIM B S (KIMB-I); KIM I C (KIMI-I); LEE K J (LEEK-I)

Inventor: KIM B S; KIM I C; LEE K J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2004081720	A	20040922	KR 200467001	A	20040825	200514 B

Priority Applications (No Type Date): KR 200467001 A 20040825

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2004081720	A	1	A45D-002/04	

Abstract (Basic): KR 2004081720 A

NOVELTY - A **hair clip** for **permanent** is provided to shorten the **permanent** time by promoting the penetration of chemical component into the hair, to relax or prevent ache of head skin, stiffness of neck or shoulder, etc. and thus to carry out the convenient **permanent**, besides to offer the **treatment** of hair and the prevention effect of hair loss.

DETAILED DESCRIPTION - The **hair clip** for **permanent**, having such a form to fix the hairs wound on a hair rod, includes; a pair of clamping members(10,20) whose column ends are **hinged** -connected so that its front ends can be opened or closed; a pair of heating **plates** (30), arranged inside the clamping members(10,20) so to be inter-locked with the latters(10,20); a heater, mounted on the clamping members(10,20), and heating the heating **plates** (30); and a magnet(50), installed in the clamping members(10,20).

pp; 1 DwgNo 1/10

Derwent Class: P24

International Patent Class (Main): **A45D-002/04**

International Patent Class (Additional): **A45D-002/06 ; A45D-002/42**

19/34/3 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014529631 **Image available**

WPI Acc No: 2002-350334/200238

Perm hair grip for perform treatment of hair has pivot pin which is passed through tension spring to fasten two clamp devices having ceramic plates on holding plates via adhesive layers

Patent Assignee: CHIA HSIN COSMETICS CO LTD (CHIA-N)

Inventor: CHANG P

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6360752	B1	20020326	US 2001865740	A	20010525	200238 B

Priority Applications (No Type Date): US 2001865740 A 20010525

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6360752	B1	6	A45D-008/20	

Abstract (Basic): US 6360752 B1

NOVELTY - The perm **hair grip** includes two clamp devices (10,10') having respective holding **plates**. Two adhesive layers (12,12') are respectively provided on the holding **plates** of the clamp devices. Two ceramic layers (13,13') are respectively provided on the adhesive layers. A **pivot** pin (4) is passed through a tension **spring** (3) to fasten the two clamp devices together.

USE - For perm **treatment** of hair.

ADVANTAGE - Enables fast focusing of heat and slow heat dissipation on hair due to provision of ceramic **plate** on holding **plates** of clamp devices. Ensures quick perm **treatment** of hair.



US006360752B1

(12) **United States Patent**
Chang

(10) **Patent No.:** US 6,360,752 B1
(45) **Date of Patent:** Mar. 26, 2002

(54) **PERM HAIRGRIP**

5,740,820 A * 4/1998 Stern 132/249
6,041,792 A * 3/2000 Kennedy 132/275

(75) **Inventor:** Pi-Hsien Chang, Chang Hwa Shein
(TW)

* cited by examiner

(73) **Assignee:** Chia Hsin Cosmetics Co., Ltd.,
Shihtze (TW)

Primary Examiner—John J. Wilson

Assistant Examiner—Robyn Kieu Doan

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(74) *Attorney, Agent, or Firm*—Alan Kamrath; Rider, Bennett, Egan & Arundel, LLP

(21) **Appl. No.:** 09/865,740

(57) **ABSTRACT**

(22) **Filed:** May 25, 2001

(51) **Int. Cl.⁷** A45D 8/20; A45D 8/22;
A45D 2/24

(52) **U.S. Cl.** 132/277; 132/278; 132/259;
132/260

(58) **Field of Search** 132/277, 276,
132/278, 224, 279, 273, 245, 250, 259,
260, 263; 24/455, 571, 570

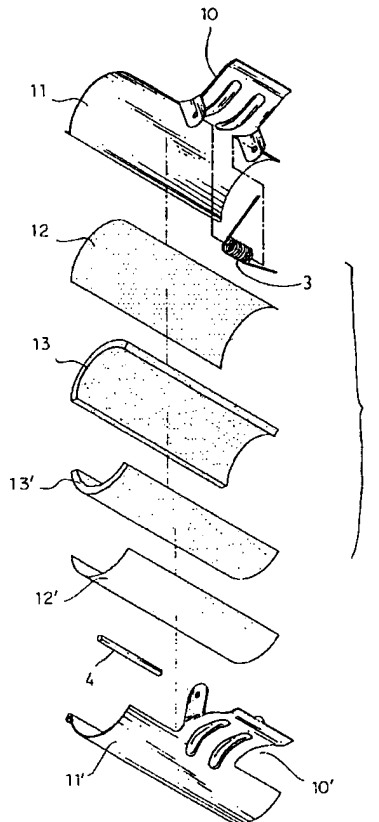
A perm hairgrip has a first clamp device, a second clamp device, a first adhesive layer, a second adhesive layer, a first ceramic plate, a second ceramic plate, a pivot pin, and a tension spring. The first clamp device has a first holding plate. The second clamp device has a second holding plate. The first adhesive layer is disposed on the first holding plate. The second adhesive layer is disposed on the second holding plate. The first ceramic plate is disposed on the first adhesive layer. The second ceramic plate is disposed on the second adhesive layer. The pivot pin fastens the first clamp device and the second clamp device together.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,195,216 A * 3/1993 Ishii 24/18

2 Claims, 4 Drawing Sheets



DESCRIPTION OF DRAWING(S) - The figure shows the perspective exploded view of perm **hair grip** .

Tension **spring** (3)
Pivot pin (4)
Clamp devices (10,10')
Adhesive layers (12,12')
Ceramic layers (13,13')
pp; 6 DwgNo 1/4

Derwent Class: P24

International Patent Class (Main): **A45D-008/20**

International Patent Class (Additional): **A45D-002/24 ; A45D-008/22**

19/34/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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007367187 **Image available**

WPI Acc No: 1988-001122/198801

Hair dye applicator in clip shape - has spongy material on clamping jaw faces, forming hair dye reservoir

Patent Assignee: HENKEL KGAA (HENK)

Inventor: BUSCH P; THIELE K

Number of Countries: 016 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 251190	A	19880107	EP 87109095	A	19870624	198801 B
DE 3622232	A	19880107	DE 3622232	A	19860702	198802
NO 8702751	A	19880125				198809
FI 8702908	A	19880103				198814
DK 8703177	A	19880103				198815
US 4830030	A	19890516	US 8768859	A	19870701	198923
CA 1302831	C	19920609	CA 541085	A	19870702	199229
NO 171392	B	19921130	NO 872751	A	19870701	199302
EP 251190	B1	19930324	EP 87109095	A	19870624	199312
DE 3784971	G	19930429	DE 3784971	A	19870624	199318
			EP 87109095	A	19870624	

Priority Applications (No Type Date): DE 3622232 A 19860702

Cited Patents: A3...9012; DE 662702; No-SR.Pub; US 2705499; US 2776667

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 251190	A	G	5		
Designated States (Regional): AT BE CH DE ES FR GB IT LI NL SE					
US 4830030	A		5		
NO 171392	B			A45D-019/00	patent NO 8702751
EP 251190	B1	G	17	A45D-019/00	
Designated States (Regional): AT BE CH DE ES FR GB IT LI NL SE					
DE 3784971	G			A45D-019/00	Based on patent EP 251190
CA 1302831	C			A45D-019/00	

Abstract (Basic): EP 251190 A

The **hair clip** applicator has two clamping jaws (4,5) provided on their facing surfaces with spongy layers (6,7) forming a **dye** reservoir and/or coupled to other reservoirs such that the respective substance can be dispensed onto a hair section.

At least one separating foil or partition (8) can be inserted between the facing application spongy layers, only removed prior to use. Where two different types of **dye** , or **processing** liq. are used, they only react together on removing the foil.

ADVANTAGE - For various hair cosmetics, with a facility to treat individual hair sections

Abstract (Equivalent): EP 251190 B

Hair clip for the fastening in the head hair and consisting of two grip limbs (2,3), which are each **pivotable** relative to each other and preferably loaded by **spring** force, of clamping cheeks (4,5) which are to be moved into a position of mutual contact and on their mutually facing outward surfaces each display a sponge-like **covering** (6,7), which when the clamping cheeks (4,5) each lie against the other form their contact surfaces, characterised thereby, that the coverings (6,7) for the delivery of hair **treatment** means each stand in flow connection with a respective reservoir (12) formed in the clamping cheeks (4,5) and containing at least one hair **treatment** liquid, wherein preferably different hair **treatment** liquids, which bring about the envisaged **treatment** effect only in cooperation, are contained in the reservoirs (12), and that at least one separating foil (8) or partition is inserted between the coverings (6,7) each standing opposite the other. (Dwg.1,2/2

Abstract (Equivalent): US 4830030 A

The applicator comprises a **hair clip** with at least two cooperating opposed clamping jaws, and bias member for biasing the jaws against each other when the applicator is in repose. A mechanism is provided for temporarily opening the jaws upon the manual application of a force sufficient to overcome the biasing. Each jaw comprises a mutually opposed face lining consisting essentially of a surface-active **material** having sponge-like characteristics, for providing a dispenser-reservoir for dispensing hair **treating** liquid.

At least one removable separating partition is inserted between the opposed face linings, comprising a separating film.

USE/ADVANTAGE - For hair **treating** liquids enables shaped lightening, **colouring tinting** etc. or any other results to be achieved.

Derwent Class: P24

International Patent Class (Main): **A45D-019/00**

International Patent Class (Additional): **A45D-002/22 ; A45D-007/00 ; A45D-009/00**

19/7/7 (Item 1 from file: 347)

DIALOG(R)File 347:JAPIO

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06668098 **Image available**

HAIR DYEING DEVICE

PUB. NO.: 2000-253922 [JP 2000253922 A]

PUBLISHED: September 19, 2000 (20000919)

INVENTOR(s): IINO KATSUHIRO

APPLICANT(s): IINO KATSUHIRO

APPL. NO.: 11-107019 [JP 99107019]

FILED: March 10, 1999 (19990310)

ABSTRACT

PROBLEM TO BE SOLVED: To fix a sheet on hair to be prevented from falling, prevent **dyeing** agent applied to hair in a part not to **dye**, compose the sheet to be transparent for letting a dyed condition recognized on the outer side, compose the sheet to be washable to be usable repeatedly, and reduce cost.

SOLUTION: A transparent sheet 2 is two-folded vertically, and a **hair clip** base 3 is installed on the outer side at an upper end of it on one

side. On the **hair clip** base 3, a clip main body 5 of the **hair clip** 4 is installed. On the **hair clip** 4, a **spring plate** 6 is installed on the clip main body 5 to be freely opened/ closed and a little movable in a vertical direction by a **hinge** part 5a of the clip main body 5 and a **hinge** part 6a of the **spring plate** 6.

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20/3,K/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012124397 **Image available**

WPI Acc No: 1998-541309/199846

XPX Acc No: N98-421337

Hair clip for adding hair extensions - has comb and cover between which user's hair is trapped to attach hair extensions under track snaps

Patent Assignee: PILLARS S M (PILL-I)

Inventor: PILLARS S M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5813418	A	19980929	US 9629955	A	19961108	199846 B
			US 97965778	A	19971107	

Priority Applications (No Type Date): US 9629955 P 19961108; US 97965778 A 19971107

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 5813418 A 8 A41G-003/00 Provisional application US 9629955

...Abstract (Basic): The **hair clip** (10) has a flexible curved comb (16) having an unitary upper edge along its length from which long comb teeth are extended. A flexible **cover** (22) **hinged** to the upper edge and coextensive in area with comb has a median region for...

...27) having short pins on their undersides cooperate with short pins on comb and are **hinged** to upper edge and bottom edge respectively of the **cover** . A user's hair is trapped by the comb and the **cover** for attachment of hair extensions under the track snaps...

...ADVANTAGE - Provides **colour** -matching **hair clip** for adding hair extensions of straight curly wavy or braided hair of any style and...

21/26,TI/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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017277919

WPI Acc No: 2005-601547/200562

Head hair holder for aiding in curling hair has strip-shaped reinforcing members, made from raw material having glass transition point at room temperature, provided along longitudinal direction of cylindrical body

21/26,TI/8 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012775750

WPI Acc No: 1999-581976/199950

Decorative hair clasp or slide

21/26,TI/10 (Item 10 from file: 350)

DIALOG(R)File 350:Derwent WPIX
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012118573

WPI Acc No: 1998-535485/199846

Magnetotherapy implement to rejuvenate hair root - includes comb-shaped member with crimping elements, made of magnetic material , e.g. germanium

21/34/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.
016395651 **Image available**
WPI Acc No: 2004-553560/200453

Hair dressing tool has plate with projection, inserted into hair holder to draw hair from one end to other end of holder

Patent Assignee: KAO CORP (KAOS)
Inventor: KOBAYASHI H; MISUMI H; TOJO T
Number of Countries: 109 Number of Patents: 007
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200462421	A1	20040729	WO 2004JP226	A	20040115	200453 B
JP 2004261195	A	20040924	JP 20036510	A	20030115	200463
JP 2004261196	A	20040924	JP 20036511	A	20030115	200463
JP 2004261197	A	20040924	JP 20036512	A	20030115	200463
JP 2005185533	A	20050714	JP 2003430953	A	20031225	200546
JP 2005204676	A	20050804	JP 20046627	A	20040114	200551
EP 1584258	A1	20051012	EP 2004702446	A	20040115	200567
			WO 2004JP226	A	20040115	

Priority Applications (No Type Date): JP 20046627 A 20040114; JP 20036510 A 20030115; JP 20036511 A 20030115; JP 20036512 A 20030115; JP 2003430952 A 20031225; JP 2003430953 A 20031225

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 200462421	A1	J	86 A45D-002/00	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

JP 2004261195	A	9	A45D-006/00
JP 2004261196	A	9	A45D-006/00
JP 2004261197	A	8	A45D-006/00
JP 2005185533	A	7	A45D-002/08
JP 2005204676	A	12	A45D-002/00

EP 1584258 A1 E A45D-002/00 Based on patent WO 200462421

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Abstract (Basic): WO 200462421 A1

NOVELTY - A **plate** (2) having projections (6) to attach bundle of hair (H) at one end, is inserted into a **hair holder** (T) through an opening to draw hair from one end to other end of the holder.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for **permanent wave processing** method.

USE - For dressing hair in various forms such as bellow, zig-zag,

IE IT LI LU MC NL PT SE SK TR
US 20040231689 A1 A45D-002/00
CN 1533250 A A45D-002/08
JP 2005246100 A 24 A45D-002/28 Div ex application JP 2001220387
Abstract (Basic): WO 2003007752 A1

NOVELTY - Hair **treating** implement comprising a **hair holder** made of slender flexible **material** and having a hair take-in port at one end, a hair inserter for inserting hair into the **hair holder**, and a curling means for curling, curving or bending the hair held by the **hair holder** into a predetermined shape. A hair **treating** method comprising the steps of holding a predetermined amount of hair by a **hair holder** in a hair **treating** implement, the **hair holder** being made of slender flexible **material** and adapted to hold hair, and then curling, curving or bending the hair held in the **hair holder** by a predetermined curling means disposed in the **hair holder**.

pp; 73 DwgNo 2/34

Derwent Class: P24

International Patent Class (Main): A45D-002/00 ; A45D-002/08 ;
A45D-002/28

International Patent Class (Additional): A45D-002/18 ; A45D-002/30 ;
A45D-007/04 ; A45D-007/06 ; A45D-008/00 ; A45D-019/02 ; A45D-019/18

21/34/9 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012142169 **Image available**

WPI Acc No: 1998-559081/199848

Hair holder for use when highlighting hair - has stiff unit with
block of sheets of hair wrapping material

Patent Assignee: WELLA AG (WELA)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 29816095	U1	19981022	DE 98U2016095	U	19980908	199848 B

Priority Applications (No Type Date): DE 98U2016095 U 19980908

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 29816095	U1	10		A45D-019/18	

Abstract (Basic): DE 29816095 U

The device consists of a mainly stiff unit, to carry and position a flat **material** around strands of hair. Sheets (8) of the flat **material** (5) are connected to the unit (7) to form a block (10). A narrow side (13) of the block has a concave aperture (14) pref. shaped like the head. The top surface (15) of each sheet is of a different **colour** from its underside.

The flat **material** contains paper or aluminium foil (11), and the rigid unit consists of plastic or carton (12).

ADVANTAGE - Provides simpler handling, improved single-handed use, and simpler supply of **material** sheets.

Dwg.3/5

Derwent Class: P24

International Patent Class (Main): A45D-019/18

27/3,K/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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003756726

WPI Acc No: 1983-752937/198335

XPX Acc No: N83-155061

Hair dyeing or bleaching purse - comprises elongate flat rectangular member having central transverse groove, allowing folding over of cover

Patent Assignee: THOMAS L N (THOM-I)

Inventor: THOMAS L N

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4398549	A	19830816				198335 B

Priority Applications (No Type Date): US 81286804 A 19810727

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 4398549	A	4		

...Abstract (Basic): The hair ' **frosting** ' or ' **streaking** ' purse includes an elongate, rectangular, flat member integrally moulded of a resilient, chemically inert, synthetic...

...clamp bar is pivotally secured at one side of the open end and serves to **clamp hair** strands to be frosted, bleached or dyed against the inner surface of the container. The **cover** portion enables full enclosure of the hair strands during the process...

International Patent Class (Additional): **A45D-008/22**

32/26, TI/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012028639

WPI Acc No: 1998-445549/199838

Hair clip - Has coil spring in hinge that is covered by covering portions when hair retaining portions are in closed state

32/26, TI/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011897305

WPI Acc No: 1998-314215/199828

Hair grip with spring -loaded hinge - has spring enclosed by cover with slot for spring end, fixed to one jaw

32/26, TI/6 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010939246

WPI Acc No: 1996-436196/199644

Hair clip made in synthetic material with base and pivoting clip - has bolt sliding in groove in base with projection clipped into free end of clip by spring , hook engaging in slot and shoulder engaging on stop surfaces in slot

32/34/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2005 Thomson Derwent. All rts. reserv.
013915680 **Image available**

WPI Acc No: 2001-399893/200143

United States Patent [19]

Thomas

[11] 4,398,549

[45] Aug. 16, 1983

[54] HAIR FROSTING PURSE

[76] Inventor: Louis N. Thomas, 990 NE. 156 Ter.,
North Miami Beach, Fla. 33162

[21] Appl. No.: 286,804

[22] Filed: Jul. 27, 1981

[51] Int. Cl.³ A45D 8/22

[52] U.S. Cl. 132/9

[58] Field of Search 132/9

[56] References Cited

U.S. PATENT DOCUMENTS

1,550,930	8/1925	Sullivan	132/9
3,103,933	9/1963	Sanzo	132/9
3,692,032	9/1972	Rogas	132/9

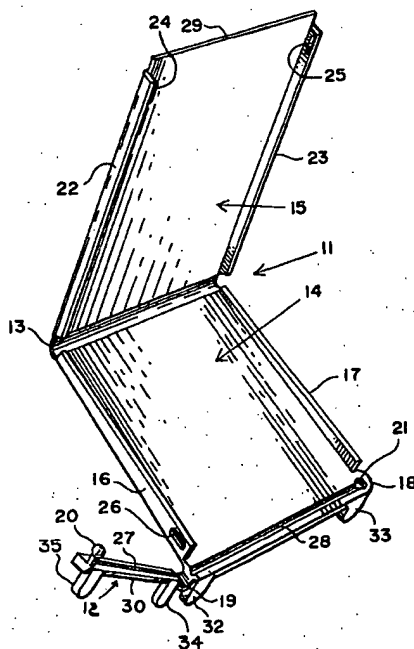
Primary Examiner—Gregory E. McNeill
Attorney, Agent, or Firm—Ernest H. Schmidt

[57]

ABSTRACT

An elongated, rectangular, substantially flat member integrally molded of a resilient, chemically inert, synthetic plastic material is provided with a centrally located transverse groove permitting the folding over of a cover portion thereof against a shallow enclosure portion which is open at the outer end. A synthetic plastic clamp bar pivotally secured at one side of the open end serves to clamp hair strands to be frosted, bleached or dyed against the inner surface of the container. The cover portion enables full enclosure of the hair strands during the process.

5 Claims, 5 Drawing Figures



Hair-grip has pair of jaws hinged together with coil spring enclosed in housing with rotation stops

Patent Assignee: CSP DIFFUSION (CSPD-N); CSP TRANSMITTING CORP (CSPT-N);
 CSP DIFFUSION SA (CSPD-N)

Inventor: POTUT C; CHRISTIAN P

Number of Countries: 031 Number of Patents: 012

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1103201	A1	20010530	EP 2000420236	A	20001115	200143 B
CA 2326679	A1	20010529	CA 2326679	A	20001123	200144
JP 2001190322	A	20010717	JP 2000359150	A	20001127	200144
FR 2801477	A1	20010601	FR 9915224	A	19991129	200156
US 6354307	B1	20020312	US 2000723782	A	20001128	200221
EP 1103201	B1	20020403	EP 2000420236	A	20001115	200230
DE 60000110	E	20020508	DE 110	A	20001115	200238
			EP 2000420236	A	20001115	
SG 87911	A1	20020416	SG 20006740	A	20001121	200240
CN 1354995	A	20020626	CN 2000134264	A	20001129	200263
ES 2174807	T3	20021116	EP 2000420236	A	20001115	200302
JP 3462173	B2	20031105	JP 2000359150	A	20001127	200377
CA 2326679	C	20050308	CA 2326679	A	20001123	200519

Priority Applications (No Type Date): FR 9915224 A 19991129

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1103201 A1 F 14 A45D-008/20

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
 LI LT LU LV MC MK NL PT RO SE SI TR

CA 2326679 A1 F A45D-002/42

JP 2001190322 A 7 A45D-008/14

FR 2801477 A1 A45D-008/20

US 6354307 B1 A45D-008/20

EP 1103201 B1 F A45D-008/20

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI
 LU MC NL PT SE TR

DE 60000110 E A45D-008/20 Based on patent EP 1103201

SG 87911 A1 A45D-008/20

CN 1354995 A A45D-008/00

ES 2174807 T3 A45D-008/20 Based on patent EP 1103201

JP 3462173 B2 7 A45D-008/14 Previous Publ. patent JP 2001190322

CA 2326679 C F A45D-002/42

Abstract (Basic): EP 1103201 A1

NOVELTY - Hair-grip has two jaws (1,4) **pivoted** together (7) by **hinge** (8) having coil **spring** (14) around **pivot** axis. **Spring** is enclosed in opaque casing (16) which has open end for passage of radially extending end (15) of **spring**. Casing is formed integrally and has flange **covering** groove of pin which is apertured to lock **pivot** action. Other end of casing has no flange but has second pin (10) with second groove continued on side surface of casing.

USE - For hair dressing.

ADVANTAGE - Allows ease of assembly spring onto grip.

DESCRIPTION OF DRAWING(S) - Drawing shows side view of hair grip.

Jaws (1,4)

Hinge (7)

Coil spring (14)

pp; 14 DwgNo 1/12

Derwent Class: P24

International Patent Class (Main): A45D-002/42 ; A45D-008/00 ;

A45D-008/14 ; A45D-008/20
International Patent Class (Additional): F16C-011/04

32/34/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2005 Thomson Derwent. All rts. reserv.

012850784 **Image available**

WPI Acc No: 2000-022616/200002

Clip for styling hair

Patent Assignee: SHU Y J (SHUY-I)

Inventor: SHU Y J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5988184	A	19991123	US 99273737	A	19990322	200002 B

Priority Applications (No Type Date): US 99273737 A 19990322

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5988184	A	9	A45D-008/20	

US 5988184 A 9 A45D-008/20

Abstract (Basic): US 5988184 A

NOVELTY - The clip for styling hair consists of a pair of **plates** (10,20) coupled together by **pivoting** a shaft (60) in the middle portion. The lower side of the **plates** consists of comb teeth (30,40) and is rotated outwardly and inwardly for holding the hair.

USE - The clip for styling hair is used for holding hair in a stylish way.

ADVANTAGE - The lower portions of the clip has a stop for limiting relative rotational movements.

DESCRIPTION OF DRAWING(S) - The figure shows the exploded view of the clip for styling hair.

Plates (10,20)

Comb teeth (30,40)

Shaft (60)

pp; 9 DwgNo 1/13

Derwent Class: P24

International Patent Class (Main): **A45D-008/20**

International Patent Class (Additional): **A45D-007/02 ; A45D-008/00 ; A45D-008/04**

32/34/8 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2005 Thomson Derwent. All rts. reserv.

009811758 **Image available**

WPI Acc No: 1994-091613/199411

Appts. for heating and styling root area hair - comprises an independently heated spring loaded hair clip holds root area hair perpendicular to the scalp

Patent Assignee: CLAIROL INC (CLAI)

Inventor: DENHUP P

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5294777	A	19940315	US 92900626	A	19920618	199411 B

Priority Applications (No Type Date): US 92900626 A 19920618

Patent Details:



US00529477A

United States Patent [19][11] **Patent Number:** **5,294,777****Denhup**[45] **Date of Patent:** **Mar. 15, 1994**

[54] **HAIR CLIP FOR HEATING AND SHAPING ROOT-AREA HAIR PERPENDICULAR TO THE SCALP AND AN ELECTRIC HEATING UNIT FOR HEATING THE CLIPS**

[75] **Inventor:** Paul Denhup, Stratford, Conn.

[73] **Assignee:** Clairol, Incorporated, New York, N.Y.

[21] **Appl. No.:** 900,626

[22] **Filed:** Jun. 18, 1992

[51] **Int. Cl.⁵** A45D 1/02; A45D 2/36; A45D 4/00; H05B 3/00

[52] **U.S. Cl.** 219/225; 132/206; 132/223; 132/229; 132/231; 219/230; 219/242

[58] **Field of Search** 219/222-226, 219/230, 242; 132/118, 212, 223-225, 229-234, 236, 269, 227, 200, 210, 211, 206

[56] **References Cited**

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3,600,552	8/1971	Tolmie	219/242 X

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2615267	10/1977	Fed. Rep. of Germany	132/232
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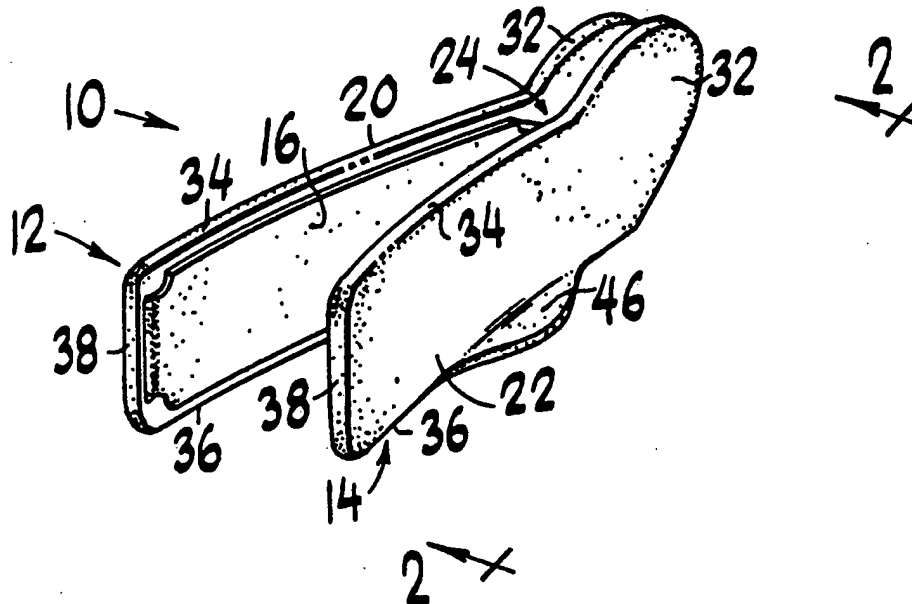
Primary Examiner—Anthony Bartis

Attorney, Agent, or Firm—Anthony M. Santini

[57]

ABSTRACT

A hair clip for heating and styling clasped hair, whether damp or dry, into a linear configuration in the scalp area of a user. The clip comprises a pair of biasable jaws including a pair of plates for storing heat and releasing such heat to style clasped hair held between the pair of plates. Supports extend laterally from the hair clip to permit it to freestand and heat and style the hair in a perpendicular fashion to the scalp, giving the remaining hair lift away from the scalp. The hair clips are heated by biasably gripping a heated plate positioned within a base structure of an electric heating unit. The heated hair clips are used in a method of styling dry or damp hair into a linear configuration generally perpendicular to the scalp.

15 Claims, 6 Drawing Sheets

Patent No Kind Lan Pg Main IPC Filing Notes
US 5294777 A 10 A45D-001/02
Abstract (Basic): US 5294777 A

A hair clip (10) incorporates a pair of **spring** loaded pairs (12, 14) having heat storing **plates** (16, 18) for releasing such heat to clasped hair. The **plates** (16, 18), pref. of textured aluminium are secured to housings (20, 22) of heat insulating **material**, e.g. polycarbonate, which incorporate supports (46) to maintain a position perpendicular to the users crown. A heating unit (48) has provision for heating a number of **hair clips** at a time.

USE/ADVANTAGE - For heating and styling hair clasped close to the users scalp to give lift and volume to the hair. Treats damp or dry hair next to the scalp safely without danger of heated portions contacting the scalp.

Dwg.1/10

Derwent Class: A96; P24; X27

International Patent Class (Main): **A45D-001/02**

International Patent Class (Additional): **A45D-002/36 ; A45D-004/00 ; H05B-003/00**

32/34/9 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009548532 **Image available**

WPI Acc No: 1993-242081/199330

Hair straightening clamp assembly - has shell with front and rear portions hinged to spine and having foam inserts

Patent Assignee: STRATFORD LAB (STRA-N)

Inventor: HILL P H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5228465	A	19930720	US 91800527	A	19911202	199330 B

Priority Applications (No Type Date): US 91800527 A 19911202

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 5228465 A 6 A45D-007/02

Abstract (Basic): US 5228465 A

The hair clamp has an outer shell comprised of a thin rigid plastic **material**. The shell includes a front portion and a rear portion each of which is separately **hinged** to a spine portion. The inner surface of the shell is covered with a layer of foam **material** which is bonded to the spine portion. The shell and the foam **material** are foldable about the **hinges** to form a clamp having front and back halves with the foam **material** in the inside.

A lock integral with the plastic shell is adapted to maintain the clamp in its closed position. The outer configuration of the hair clamp is substantially rectangular.

ADVANTAGE - Ease of mfr. and disposability.

Dwg.2/7

Derwent Class: P24

International Patent Class (Main): **A45D-007/02**

32/7/11 (Item 1 from file: 347)

DIALOG(R)File 347:JAPIO



US005228465A

United States Patent [19]
Hill[11] **Patent Number:** **5,228,465**[45] **Date of Patent:** **Jul. 20, 1993**[54] **HAIR CLAMP**[75] **Inventor:** Percy H. Hill, Silver Lake, N.H.[73] **Assignee:** Stratford Laboratories, Chadds Ford, Pa.[21] **Appl. No.:** 800,527[22] **Filed:** Dec. 2, 1991[51] **Int. Cl.:** A45D 7/02[52] **U.S. Cl.:** 132/212; 132/223;
132/273[58] **Field of Search:** 132/212, 223, 224, 263,
132/267, 273, 275, 278[56] **References Cited****U.S. PATENT DOCUMENTS**

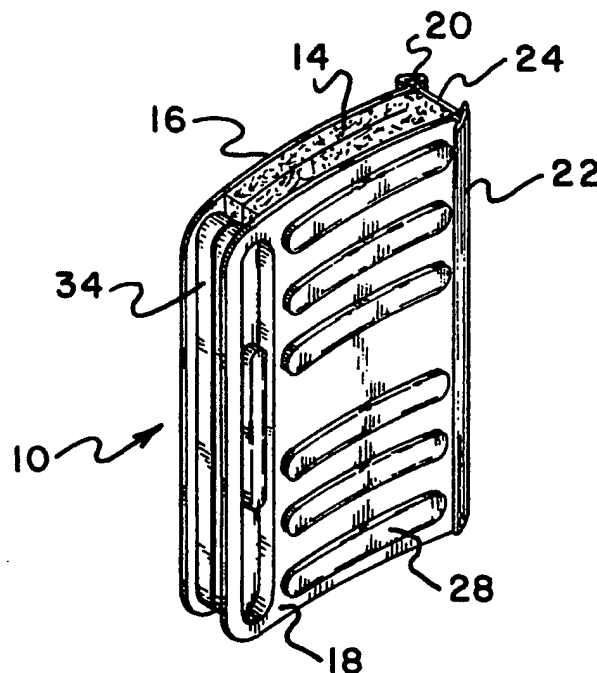
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0251968 1/1988 European Pat. Off. 132/212

Primary Examiner—Gene Mancene*Assistant Examiner*—Frank A. LaVick*Attorney, Agent, or Firm*—Norman E. Lehrer[57] **ABSTRACT**

A hair clamp has an outer shell comprised of a thin substantially rigid plastic material. The shell includes a front portion and a rear portion each of which is separately hinged to a spine portion. The inner surface of the shell is covered with a layer of foam material which is bonded to the spine portion. The shell and the foam material are foldable about the hinges to form a clamp having front and back halves with the foam material in the inside thereof. A lock integral with the plastic shell is adapted to maintain the clamp in its closed position. The outer configuration of the hair clamp is substantially rectangular. However, the bottom of the device is somewhat concavely curved while the top is convexly curved. This allows the device to be placed close to the person's head since the bottom fits the contour of the head. The hair clamps can also be stacked vertically one on top of the other for longer hair.

3 Claims, 2 Drawing Sheets

(c) 2005 JPO & JAPIO. All rts. reserv.
06026107 **Image available**

CLIP FOR FLAT CURLING

PUB. NO.: 10-309207 [JP 10309207 A]

PUBLISHED: November 24, 1998 (19981124)

INVENTOR(s): KAMATA KENJI

APPLICANT(s): MATSUSHITA ELECTRIC WORKS LTD [000583] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 09-218850 [JP 97218850]

FILED: August 13, 1997 (19970813)

ABSTRACT

PROBLEM TO BE SOLVED: To uniformly heat **clip** pieces in a short time, to deal with curling of short **hair**, and to easily heat a bundle of hair, by building a heater in at least one clip piece and forming either one of clip clips into a comb shape.

SOLUTION: A hair clipping part A(sub 2) is to directly **clip hair** for curling and composed of a flat exothermic clip piece 1A and a comb shaped clip piece 1B with the tip end formed into a comb shape. The comb shaped clip piece 1B has, for instance, three parallel 13. A linear or plane hair clipping face is formed along the hair clipping face 3 side of the clip piece 1 in the direction to cross the axis of a **hinge** part A(sub 3) by the combs 13 when both clip pieces 1 are closed by the combs 13. A heater 2 with a thin **plate** exothermic body 6, an almost ring shaped fixing body 10 made of resin surrounding the exothermic body 6, and two electrodes 7a, 7b placed on both faces of the exothermic body 6 is placed in the inside of the exothermic clip piece 1A.

File 16:Gale Group PROMT(R) 1990-2005/Oct 21
 (c) 2005 The Gale Group
 File 160:Gale Group PROMT(R) 1972-1989
 (c) 1999 The Gale Group
 File 47:Gale Group Magazine DB(TM) 1959-2005/Oct 24
 (c) 2005 The Gale group
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 (c) 2005 The Gale Group
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 File 484:Periodical Abs Plustext 1986-2005/Oct W3
 (c) 2005 ProQuest
 File 9:Business & Industry(R) Jul/1994-2005/Oct 21
 (c) 2005 The Gale Group

Set	Items	Description
S1	377295	HAIR
S2	1104065	CLIP? ? OR HOLDER? ? OR FASTENER? ? OR CLASP? ? OR CLAMP? ? OR GRIP OR GRIPS
S3	1287485	SPRING
S4	293106	HINGE? ? OR PIVOT? OR SWIVEL?
S5	1077040	SHIELD? ? OR PROTECTIVE OR PLATE OR PLATES OR PAD OR PADS - OR SKIRT OR SKIRTS
S6	4217425	MATERIAL OR COVERING OR COVER OR COVERS
S7	856	S1()S2
S8	46	S7(S)S3:S4
S9	2	S5:S6(S)S8
S10	1	RD (unique items) [too recent]
S11	47	S7(S)S5:S6
S12	45	S11 NOT S9
S13	35	RD (unique items)
S14	8	S13/2004:2005
S15	27	S13 NOT S14
S16	27	Sort S15/ALL/PD,A
S17	546303	PERMANENT? ?
S18	1742395	TREATMENT? ?
S19	45796	COLOURING OR COLORING
S20	39171	DYEING OR TINTING OR FROSTING OR STREAKING OR TOUCHUP? ? OR TOUCHING()UP
S21	2226738	PROCESSING OR BLEACHING
S22	11143	S1(N)S17:S21
S23	24	S2(10N)S22
S24	24	S23 NOT (S9 OR S11)
S25	15	RD (unique items)
S26	3	S25/2004:2005
S27	12	S25 NOT S26

S28 **12** **Sort S27/ALL/PD,A**
S29 **0** **S22/TI,DE AND S2(S)S3:S6**
S30 **19** **S22/TI,DE AND S2**
S31 **14** **S30 NOT (S9 OR S11 OR S23)**
S32 **9** **RD (unique items)**
S33 **9** **Sort S32/ALL/PD,A**

16/3,K/4 **(Item 4 from file: 148)**
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.
03713426 **SUPPLIER NUMBER: 06759864** **(USE FORMAT 7 OR 9 FOR FULL TEXT)**
Maeve Carr: little things mean the most. (hat designer) (Accessories
supplement)
Neuhauser, Elyce
WWD, v156, n82, pA76(1)
Oct 28, 1988
ISSN: 0149-5380 **LANGUAGE: ENGLISH** **RECORD TYPE: FULLTEXT**
WORD COUNT: 956 **LINE COUNT: 00070**
... **trim on a hat carries over to a ruffle on a hair clip or the cover**
of an earring.
Carr also interprets one idea for a variety of price points. "If...

28/7/5 **(Item 5 from file: 16)**
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.
04997865 **Supplier Number: 47340078** **(THIS IS THE FULLTEXT)**
Hair Colorants: New Lineups of "Salon De Pro" by Dariya
Comline-Consumer Goods, pN/A
April 30, 1997
TEXT:
Dariya has enlarged its "Salon De Pro" series by introducing the following new products.
 High Treatment Hair Manicure [Cream Type] (JPY900) - It features an easy-to-hold **grip** which facilitates uniform application of hair colorant. Containing an agent to promote penetration, it maintains a natural color and gloss long. It includes "Liquid Protein" which prevents damage, "Treatment Olive Oil" which quickly penetrates the hair and gives luster, and "Moisture Retention Amino Acid."
 S Point Mesh (JPY500) - It can easily produce a vivid mesh. As it is easily washed off with shampoo, the user can easily change her hair color. Contains a treatment ingredient "LAAS" and a hair-protective ingredient "Silk Peptide. "
 Color Touch Grey Hair Concealer (JPY800) - A mascara-type hair colorant for gray hair, which can quickly conceal gray hair on specific areas of the head such as the borders of the hair.
 Ref: Cosmetic & Household Products in Japan, 02/15/97
 COPYRIGHT 1997 Comline Business Data, Inc.
 COPYRIGHT 1999 Gale Group

28/7/9 **(Item 9 from file: 9)**
DIALOG(R)File 9:Business & Industry(R)
(c) 2005 The Gale Group. All rts. reserv.
02280994 **Supplier Number: 25849382**
Home hair coloring made easier with TPEs
(Home hair coloring market's US customer base is over \$1.5 bil/yr in sales

and over 50 mil people)

Modern Plastics, v 77, n 10, p 21

October 2000

WORD COUNT: 175

TEXT:

photo omitted

The home hair coloring market is big business, with a U.S. customer base more than 50 million and over \$1.5 billion in annual sales. Until now, home hair coloring was often messy and uneven; but due to a revolutionary new product from Boston-based New Basics, Inc., home hair coloring just got easier. The "Hair Coloring Brush" is a stylish, 11-inch squeeze applicator that delivers hair color through a vented brush head. Three components -- the brush head, **grip** and duckbill pump apparatus inside the **Hair Coloring Brush** -- are constructed primarily of Santoprene(R) TPE, with an EVA (ethylene vinyl acetate) applicator bottle. A Santoprene TPE 8000 Series grade from Advanced Elastomer Systems, was used throughout the Hair Coloring Brush because the TPE offers an excellent blend of chemical and stain resistance, moldability, elasticity and colorability. The product is offered in six vibrant colors, including best-sellers fuchsia and orange. RTP, based in Winona, Minn., custom compounded the colored Santoprene TPE and Plastic Design, Middletown, Conn., used injection and blow molding to manufacture the finished product.

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28/7/10 (Item 10 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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08756591 Supplier Number: 75834146 (THIS IS THE FULLTEXT)

TPE brings no-mess hair coloring .(thermoplastic elastomer grips in reusable dispensers) (Brief Article)

Kren, Lawrence

Machine Design, v73, n11, p38

June 7, 2001

TEXT:

Reusable dispensers with soft, thermoplastic elastomer (TPE) grips and brushes let home hair stylists apply the correct amount of dye without; the associated mess of squeeze bottles.

Santoprene TPE 8000 from Advanced Elastomer Systems, Akron, Ohio, forms the product's injection-molded **grip**, "duckbill" pump, and brush head. These parts mechanically bond to a blow-molded polyethylene handle. The TPE product resists stains, seals against leaks, and remains elastic for a comfortable grip. Its high-flow properties also make it easy to process and color. And it's recyclable.

Users simply fill a disposable inner chamber with color dye, then lightly depress the pump button on the grip to send dye to the brush head. "The Santoprene TPE gives the New Basics Coloring Brush a distinct, functional look and feel," says R&D Chief Mary Mu of New Basics Inc., Boston.

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33/3,K/2 (Item 2 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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06499155 SUPPLIER NUMBER: 14156472 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Clairol retailing system propels hair coloring arena into the '90s.

(Clairol Inc.) (The 1993 NACDS Marketplace Conference: Building Alliances)

Chain Drug Review, v15, n16, p56(1)

June 21, 1993

ISSN: 0164-9914 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 804 LINE COUNT: 00062

... Available beginning in July for a list price of \$27.98, Quick Lift heated styling clips are the first products of their kind, says Clairol.

Also new from the firm are...

33/7/6 (Item 6 from file: 9)

DIALOG(R)File 9:Business & Industry(R)

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02829664 Supplier Number: 25347082 (THIS IS THE FULLTEXT)

Home hair kits are as colourful as can B

(Two hair colouring kits will be launched by Jerome Russell)

Chemist & Druggist, p 26

September 07, 2002

WORD COUNT: 221

TEXT:

October will see the launch of two hair colouring kits from Jerome Russell. The products will be exclusively sold through Boots The Chemists for three months and will be available to independent pharmacies from January 2003. The kits are aimed at people who want to create the effect of professional colouring in the comfort of their own home.

B Colour By You is a simple one-step application system that can lighten the natural colour and add vibrant new colour without having to pre-bleach. The system is available in two different packs:

* Chunky Lowlights & Fine Highlights can be used to add streaks or thin slices of colour, or

* Colour Tips & Vibrant Undertoning is used on the tips of the hair, the fringe or to add depth.

Packs include colour bleach, cream peroxide, foil strips, hair bands and conditioning shampoo. Both are available in a range of colours.

Create 5 Professional Styling Kit can be used to achieve one of five different effects - colour tips, polished tips, sponging, fringe lights or chunky streaks. The pack includes foil strips, sectioning clips, a development cap, hair bands and cosmetics sponges. It is designed to be used in conjunction with Jerome Russell hair colours.

Price: B Colour By You #6.49, Create 5 Professional Styling Kit #3.49

Fine Fragrances & Cosmetics Ltd Tel: 020 8979 8156.

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33/7/7 (Item 7 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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10315752 Supplier Number: 98731414 (THIS IS THE FULLTEXT)

Smart Beauty Smart Colour Semi- Permanent Hair Colour - Baby Pink; Black; Blue; Copper; Lilac; Purple; Red; Smart Duo Highlights; Blonde Pre-Lightener MANUFACTURER: Smart Beauty UK Ltd. CATEGORY: 321 - Hair Colorings & Other Hair Products. (Brief Article)

International Product Alert, v20, n1, p0

Jan 20, 2003

TEXT:

A new range of home hair colorants, marketed by Smart Beauty Uk Ltd., has recently been introduced to consumers in the United Kingdom. The Smart Beauty Smart Colour Semi-Permanent Hair Color range is available in vibrant colors of Baby Pink, Black, Blue, Copper, Lilac, Purple, Red, Smart Duo Highlights, and Blonde Pre-Lightener. The pre-lightener is said to give maximum blonding effect and a neutral base for color. Each kit contains accessories such as brushes, foils and **clips** to shampoo, pre-coloring, and a step-by-step leaflet. The Smart Colour range retails at 3.99 English pounds and the Smart Duo Highlights retails at 5.99 English pounds. Europcool Ltd. is the manufacturer. For sample retrieval information, please call: Marketing Intelligence Service, Ltd., (585) 374-6326.

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File 609:Bridge World Markets 2000-2001/Oct 01
(c) 2001 Bridge
File 610:Business Wire 1999-2005/Oct 24
(c) 2005 Business Wire.
File 613:PR Newswire 1999-2005/Oct 24
(c) 2005 PR Newswire Association Inc
File 809:Bridge World Markets News 1989-1999/Dec 31
(c) 1999 Bridge
File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc

Set	Items	Description
S1	28388	HAIR
S2	302092	CLIP? ? OR HOLDER? ? OR FASTENER? ? OR CLASP? ? OR CLAMP? ? OR GRIP OR GRIPS
S3	313133	SPRING
S4	97200	HINGE? ? OR PIVOT? OR SWIVEL?
S5	136684	SHIELD? ? OR PROTECTIVE OR PLATE OR PLATES OR PAD OR PADS - OR SKIRT OR SKIRTS
S6	956141	MATERIAL OR COVERING OR COVER OR COVERS
S7	34	S1()S2
S8	3	S5:S6(S)S7 [not relevant]
S9	30	S1(S)S2(S)S5:S6
S10	0	S3:S4(S)S9
S11	27	S9 NOT S8
S12	22	RD (unique items)
S13	3	S12/2004:2005
S14	19	S12 NOT S13
S15	19	Sort S14/ALL/PD,A [not relevant]

File 781:ProQuest Newsstand 1998-2005/Oct 25
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File 20:Dialog Global Reporter 1997-2005/Oct 25
(c) 2005 Dialog

Set	Items	Description
S1	499021	HAIR
S2	1179026	CLIP? ? OR HOLDER? ? OR FASTENER? ? OR CLASP? ? OR CLAMP? ? OR GRIP OR GRIPS
S3	1043332	SPRING
S4	221970	HINGE? ? OR PIVOT? OR SWIVEL?
S5	933505	SHIELD? ? OR PROTECTIVE OR PLATE OR PLATES OR PAD OR PADS - OR SKIRT OR SKIRTS
S6	4128469	MATERIAL OR COVERING OR COVER OR COVERS
S7	625563	PERMANENT? ?
S8	1534783	TREATMENT? ? OR TREATING
S9	30348	COLOURING OR COLORING
S10	26769	DYEING OR TINTING OR FROSTING OR STREAKING OR TOUCHUP? ? OR TOUCHING()UP
S11	995706	PROCESSING OR BLEACHING OR HIGHLIGHTING
S12	1665737	DYE OR HAIRDYE OR COLOR OR COLOUR OR TINT OR HIGHLIGHT? ?
S13	1198	S1()S2
S14	11	S13(S)S3:S4
S15	93	S13(S)S5:S6
S16	2	S14 AND S15
S17	1	RD (unique items) [not relevant]
S18	2	S1(2N)S2(S)S3:S4(S)S5:S6

S19	0	S18 NOT S16
S20	91	S15 NOT S16
S21	79	RD (unique items)
S22	17	S21/2004:2005
S23	62	S21 NOT S22
S24	2	S1/TI,DE AND S23 [not relevant]
S25	14	S23 AND S1/AB,LP
S26	12	S25 NOT S24
S27	12	Sort S26/ALL/PD,A [not relevant]

File 94:JICST-EPlus 1985-2005/Aug W4
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File 144:Pascal 1973-2005/Oct W3
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File 99:Wilson Appl. Sci & Tech Abs 1983-2005/Sep
(c) 2005 The HW Wilson Co.
File 65:Inside Conferences 1993-2005/Oct W4
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Set	Items	Description
S1	54663	HAIR
S2	53985	CLIP? ? OR HOLDER? ? OR FASTENER? ? OR CLASP? ? OR CLAMP? ? OR GRIP OR GRIPS
S3	90525	SPRING
S4	18916	HINGE? ? OR PIVOT? OR SWIVEL?
S5	410613	SHIELD? ? OR PROTECTIVE OR PLATE OR PLATES OR PAD OR PADS - OR SKIRT OR SKIRTS
S6	1433665	MATERIAL OR COVERING OR COVER OR COVERS
S7	87292	PERMANENT? ?
S8	2301529	TREATMENT? ? OR TREATING
S9	35381	COLOURING OR COLORING
S10	35754	DYEING OR TINTING OR FROSTING OR STREAKING OR TOUCHUP? ? OR TOUCHING()UP
S11	1201135	PROCESSING OR BLEACHING OR HIGHLIGHTING
S12	266378	DYE OR HAIRDYE OR COLOR OR COLOUR OR TINT OR HIGHLIGHT? ?
S13	13	S1(2N)S2
S14	2	S13 AND S5:S6
S15	0	S13 AND S3:S4
S16	3	S13 AND S7:S12
S17	5	S14 OR S16
S18	5	RD (unique items)

18/7/1 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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01185325 JICST ACCESSION NUMBER: 91A0155119 FILE SEGMENT: JICST-E

The development of the apparatus for evaluating hair luster.

SUZUKI NAOKI (1); IMAKI YORIKO (1); KUROKAWA HIDEO (1)

(1) Lion Corp.

Nippon Keshohin Gijutsusha Kaishi(Journal of SCCJ), 1990, VOL.24,NO.2,
PAGE.129-135, FIG.13, TBL.1, REF.6

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ABSTRACT: Hair luster is one of the criteria to judge the beauty of hair.

Therefore, young women are interested in hair luster. Luster is one of the optical properties. The reproducibility of the data measured optically for hair luster with conventional instruments has been poor and the results obtained have been in less agreement with visual evaluation, because of the influence of **color** and distortions of hair samples. Maximal reflection value measured at specular reflection angle (S) and diffuse reflection value measured in the vertical direction to the plane of hair shafts (d) were obtained with goniophotometer on hair tresses with the same luster and different **color** . "S-d Value" was introduced as "Luster Value" to minimize the influence of **color** of

hair. However, it was not possible to eliminate the influence of **color** completely by this **treatment**. Therefore the distribution of wavelength of diffuse and specular reflection was controlled by filters to adjust spectral response of optical detector to relative luminous efficiency curve. By these **treatments**, the influence of **color** was eliminated. The incident angle was set at 45.DEG. to make "signal noise ratio" higher and the apparatus smaller. **Hair holder, which is easy to handle, was developed to keep up parallelism of hair fibers**, because disorder of them had considerable influence on the measurement of hair luster. A handy apparatus, which makes hair luster measurement possible without cutting hair off, is developed. The results obtained correlate to visual evaluation. (author abst.)

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200567
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(c) 2005 European Patent Office
E2 2 AU=NAHAN SHERRI
E3 0 *AU=NAHANIEL M
E4 11 AU=NAHAPETIAN

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Set Items Description
S1 0 MICHELE(1W)NAHANIEL